FIG. 1

The nucleotide coding sequence (SEQ ID NO:1) and amino acid sequence (SEQ ID NO:2) of bovine lysozyme

```
atg aag gct ctc gtt att ctg ggg ttt ctc ttc ctt tct gtc gct
 M   K   A   L   V   I   L   G   F   L   F   L   S   V   A

gtc caa ggc aag gtc ttt gag aga tgt gag ctt gcc aga act ctg
 V   Q   G   K   V   F   E   R   C   E   L   A   R   T   L

aag aaa ctt gga ctg gac ggc tat aag gga gtc agc ctg gca aac
 K   K   L   G   L   D   G   Y   K   G   V   S   L   A   N

tgg ttg tgt ttg acc aaa tgg gaa agc agt tat aac aca aaa gct
 W   L   C   L   T   K   W   E   S   S   Y   N   T   K   A

aca aac tac aat cct agc agt gaa agc act gat tat ggg ata ttt
 T   N   Y   N   P   S   S   E   S   T   D   Y   G   I   F

cag atc aac agc aaa tgg tgg tgt aat gat ggc aaa acc cct aat
 Q   I   N   S   K   W   W   C   N   D   G   K   T   P   N

gca gtt gac ggc tgt cat gta tcc tgc agc gaa tta atg gaa aat
 A   V   D   G   C   H   V   S   C   S   E   L   M   E   N

gac atc gct aaa gct gta gcg tgt gca aag cat att gtc agt gag
 D   I   A   K   A   V   A   C   A   K   H   I   V   S   E

caa ggc att aca gcc tgg gtg gca tgg aaa agt cat tgt cga gac
 Q   G   I   T   A   W   V   A   W   K   S   H   C   R   D

cat gac gtc agc agt tac gtt gag ggt tgc acc ctg taa
 H   D   V   S   S   Y   V   E   G   C   T   L   *
```

FIG. 2 (sheet 1 of 4)

Nucleotide sequence of the plasmid p1044-BoLys

(extends from nucleotides 5767 – 6211 of the viral vector; the sequence encoding bovine lysozyme, including the stop codon, is inserted as a PacI-XhoI fragment and is shown in lower case letters, underscored

```
GTATTTTTAC AACAATTACC AACAACAACA AACAACAGAC AACATTACAA TTACTATTTA CAATTACAAT GGCATACACA CAGACAGCTA
CCACATCAGC TTTGCTGGAC ACTGTCCGAG GAAACAACTC CTTGGTCAAT GATCTAGCAA AGCGTCGTCT TTACGACACA GCGGTTGAAG
AGTTTAACGC TCGTGACCGC AGGCCCAAGG TGAACTTTTC AAAAGTAATA AGCGAGGAGC AGACGCTTAT TGCTACCCGG GCGTATCCAG
AATTCCAAAT TACATTTTAT AACACGCAAA ATGCCGTGCA TTCGCTTGCA GGTGGATTGC GATCTTTAGA ACTGGAATAT CTGATGATGC
AAATTCCCTA CGGATCATTG ACTTATGACA TAGGCGGGAA TTTTGCATCG CATCTGTTCA AGGGACGAGC ATATGTACAC TGCTGCATGC
CCAACCTGGA CGTTCGAGAC ATCATGCGGC ACGAAGGCCA GAAAGACAGT ATTGAACTAT ACCTTTCTAG GCTAGAGAGA GGGGGGAAAA
CAGTCCCCAA CTTCCAAAAG GAAGCATTTG ACAGATACGC AGAAATTCCT GAAGACGCTG TCTGTCACAA TACTTTCCAG ACATGCGAAC
ATCAGCCGAT GCAGCAATCA GGCAGAGTGT ATGCCATTGC GCTACACAGC ATATATGACA TACCAGCCGA TGAGTTCGGG GCGGCACTCT
TGAGGAAAAA TGTCCATACG TGCTATGCCG CTTTCCACTT CTCCGAGAAC CTGCTTCTTG AAGATTCATG CGTCAATTTG GACGAAATCA
ACGCGTGTTT TTCGCGCGAT GGAGACAAGT TGACCTTTTC TTTTGCATCA GAGAGTACTC TTAATTACTG TCATAGTTAT TCTAATATTC
TTAAGTATGT GTGCAAAACT TACTTCCCGG CCTCTAATAG AGAGGTTTAC ATGAAGGAGT TTTTAGTCAC CAGAGTTAAT ACCTGGTTTT
GTAAGTTTTC TAGAATAGAT ACTTTTCTTT TGTACAAAGG TGTGGCCCAT AAAAGTGTAG ATAGTGAGCA GTTTTATACT GCAATGGAAG
ACGCATGGCA TTACAAAAAG ACTCTTGCAA TGTGCAACAG CGAGAGAATC CTCCTTGAGG ATTCATCATC AGTCAATTAC TGGTTTCCCA
AAATGAGGGA TATGGTCATC GTACCATTAT TCGACATTTC TTTGGAGACT AGTAAGAGGA CGCGCAAGGA AGTCTTAGTG TCCAAGGATT
TCGTGTTCAC AGTGCTTAAC CACATTCGAA CATACCAGGC GAAAGCTCTT ACATACGCAA ATGTTTTGTC CTTCGTCGAA TCGATTCGAT
CGAGGGTAAT CATTAACGGT GTGACAGCGA GGTCCGAATG GGATGTGGAC AAATCTTTGT TACAATCCTT GTCCATGACG TTTTACCTGC
ATACTAAGCT TGCCGTTCTA AAGGATGACT TACTGATTAG CAAGTTTAGT CTCGGTTCGA AAACGGTGTG CCAGCATGTG TGGGATGAGA
TTTCGCTGGC GTTTGGGAAC GCATTTCCCT CCGTGAAAGA GAGGCTCTTG AACAGGAAAC TTATCAGAGT GGCAGGCGAC GCATTAGAGA
TCAGGGTGCC TGATCTATAT GTGACCTTCC ACGACAGATT AGTGACTGAG TACAAGGCCT CTGTGGACAT GCCTGCGCTT GACATTAGGA
AGAAGATGGA AGAAACGGAA GTGATGTACA ATGCACTTTC AGAATTATCG GTGTTAAGGG AGTCTGACAA ATTCGATGTT GATGTTTTTT
CCCAGATGTG CCAATCTTTG GAAGTTGACC CAATGACGGC AGCGAAGGTT ATAGTCGCGG TCATGAGCAA TGAGAGCGGT CTGACTCTCA
CATTTGAACG ACCTACTGAG GCGAATGTTG CGCTAGCTTT ACAGGATCAA GAGAAGGCTT CAGAAGGTGC ATTGGTAGTT ACCTCAAGAG
AAGTTGAAGA ACCGTCCATG AAGGGTTCGA TGGCCAGAGG AGAGTTACAA TTAGCTGGTC TTGCTGGAGA TCATCCGGAA TCGTCCTATT
CTAAGAACGA GGAGATAGAG TCTTTAGAGC AGTTTCATAT GGCGACGGCA GATTCGTTAA TTCGTAAGCA GATGAGCTCG ATTGTGTACA
CGGGTCCGAT TAAAGTTCAG CAAATGAAAA ACTTTATCGA TAGCCTGGTA GCATCACTAT CTGCTGCGGT GTCGAATCTC GTCAAGATCC
TCAAAGATAC AGCTGCTATT GACCTTGAAA CCCGTCAAAA GTTTGGAGTC TTGGATGTTG CATCTAGGAA GTGGTTAATC AAACCAACGG
```

FIG. 2 (sheet 2 of 4)

```
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ACGGAGAACC GCATGTCAGT AGCGCAAAGG TTGTTCTTGT GGACGGAGTT CCGGGCTGTG GAAAAACCAA AGAAATTCTT TCCAGGGTTA
ATTTTGATGA AGATCTAATT TTAGTACCTG GGAAGCAAGC CGCGGAAATG ATCAGAAGAC GTGCGAATTC CTCAGGGATT ATTGTGGCCA
CGAAGGACAA CGTTAAAACC GTTGATTCTT TCATGATGAA TTTTGGGAAA AGCACACGCT GTCAGTTCAA GAGGTTATTC ATTGATGAAG
GGTTGATGTT GCATACTGGT TGTGTTAATT TTCTTGTGGC GATGTCATTG TGCGAAATTG CATATGTTTA CGGAGACACA CAGCAGATTC
CATACATCAA TAGAGTTTCA GGATTCCCGT ACCCCGCCCA TTTTGCCAAA TTGGAAGTTG ACGAGGTGGA GACACGCAGA ACTACTCTCC
GTTGTCCAGC CGATGTCACA CATTATCTGA ACAGGAGATA TGAGGGCTTT GTCATGAGCA CTTCTTCGGT TAAAAAGTCT GTTTCGCAGG
AGATGGTCGG CGGAGCCGCC GTGATCAATC CGATCTCAAA ACCCTTGCAT GGCAAGATCC TGACTTTTAC CCAATCGGAT AAAGAAGCTC
TGCTTTCAAG AGGGTATTCA GATGTTCACA CTGTGCATGA AGTGCAAGGC GAGACATACT CTGATGTTTC ACTAGTTAGG TTAACCCCTA
CACCGGTCTC CATCATTGCA GGAGACAGCC CACATGTTTT GGTCGCATTG TCAAGGCACA CCTGTTCGCT CAAGTACTAC ACTGTTGTTA
TGGATCCTTT AGTTAGTATC ATTAGAGATC TAGAGAAACT TAGCTCGTAC TTGTTAGATA TGTATAAGGT CGATGCAGGA ACACAATAGC
AATTACAGAT TGACTCGGTG TTCAAAGGTT CCAATCTTTT TGTTGCAGCG CCAAAGACTG GTGATATTTC TGATATGCAG TTTTACTATG
ATAAGTGTCT CCCAGGCAAC AGCACCATGA TGAATAATTT TGATGCTGTT ACCATGAGGT TGACTGACAT TTCATTGAAT GTCAAAGATT
GCATATTGGA TATGTCTAAG TCTGTTGCTG CGCCTAAGGA TCAAATCAAA CCACTAATAC CTATGGTACG AACGGCGGCA GAAATGCCAC
GCCAGACTGG ACTATTGGAA AATTTAGTGG CGATGATTAA AAGAAACTTT AACGCACCCG AGTTGTCTGG CATCATTGAT ATTGAAAATA
CTGCATCTTT GGTTGTAGAT AAGTTTTTTG ATAGTTATTT GCTTAAAGAA AAAAGAAAAC CAAATAAAAA TGTTTCTTTG TTCAGTAGAG
AGTCTCTCAA TAGATGGTTA GAAAAGCAGG AACAGGTAAC AATAGGCCAG CTCGCAGATT TTGATTTTGT GGATTTGCCA GCAGTTGATC
AGTACAGACA CATGATTAAA GCACAACCCA AACAAAAGTT GGACACTTCA ATCCAAACGG AGTACCCGGC TTTGCAGACG ATTGTGTACC
ATTCAAAAAA GATCAATGCA ATATTCGGCC CGTTGTTTAG TGAGCTTACC AGGCAATTAC TGGACAGTGT TGATTCGAGC AGATTTTTGT
TTTTCACAAG AAAGACACCA GCGCAGATTG AGGATTTCTT CGGAGATCTC GACAGTCATG TGCCGATGGA TGTCTTGGAG CTGGATATAT
CAAAATACGA CAAATCTCAG AATGAATTCC ACTGTGCAGT AGAATACGAG ATCTGGCGAA GATTGGGTTT CGAAGACTTC TTGGGAGAAG
TTTGGAAACA AGGGCATAGA AAGACCACCC TCAAGGATTA TACCGCAGGT ATAAAAACTT GCATCTGGTA TCAAAGAAAG AGCGGGGACG
TCACGACGTT CATTGGAAAC ACTGTGATCA TTGCTGCATG TTTGGCCTCG ATGCTTCCGA TGGAGAAAAT AATCAAAGGA GCCTTTTGCG
GTGACGATAG TCTGCTGTAC TTTCCAAAGG GTTGTGAGTT TCCGGATGTG CAACACTCCG CGAATCTTAT GTGGAATTTT GAAGCAAAAC
TGTTTAAAAA ACAGTATGGA TACTTTTGCG GAAGATATGT AATACATCAC GACAGAGGAT GCATTGTGTA TTACGATCCC CTAAAGTTGA
TCTCGAAACT TGGTGCTAAA CACATCAAGG ATTGGGAACA CTTGGAGGAG TTCAGAAGGT CTCTTTGTGA TGTTGCTGTT TCGTTGAACA
ATTGTGCGTA TTACACACAG TTGGACGACG CTGTATGGGA GGTTCATAAG ACCGCCCCTC CAGGTTCGTT TGTTTATAAA AGTCTGGTGA
AGTATTTGTC TGATAAAGTT CTTTTTAGAA GTTTGTTTAT AGATGGCTCT AGTTGTTAAA GGAAAAGTGA ATATCAATGA GTTTATCGAC
CTGACAAAAATGGAGAAGAT CTTACCGTCG ATGTTTACCC CTGTAAAGAG TGTTATGTGT TCCAAAGTTG ATAAAATAAT GGTTCATGAG
AATGAGTCAT TGTCAGGGGT GAACCTTCTT AAAGGAGTTA AGCTTATTGA TAGTGGATAC GTCTGTTTAG CCGGTTTGGT CGTCACGGGC
GAGTGGAACT TGCCTGACAA TTGCAGAGGA GGTGTGAGCG TGTGTCTGGT GGACAAAAGG ATGGAAAGAG CCGACGAGGC CATTCTCGGA
```

FIG. 2 (sheet 3 of 4)

TCTTACTACA CAGCAGCTGC AAAGAAAAGA TTTCAGTTCA AGGTCGTTCC CAATTATGCT ATAACCACCC AGGACGCGAT GAAAAACGTC
TGGCAAGTTT TAGTTAATAT TAGAAATGTG AAGATGTCAG CGGGTTTCTG TCCGCTTTCT CTGGAGTTTG TGTCGGTGTG TATTGTTTAT
AGAAATAATA TAAAATTAGG TTTGAGAGAG AAGATTACAA ACGTGAGAGA CGGAGGGCCC ATGGAACTTA CAGAAGAAGT CGTTGATGAG
TTCATGGAAG ATGTCCCTAT GTCGATCAGG CTTGCAAAGT TTCGATCTCG AACCGGAAAA AAGAGTGATG TCCGCAAAGG GAAAAATAGT
AGTAGTGATC GGTCAGTGCC GAACAAGAAC TATAGAAATG TTAAGGATTT TGGGGGAATG AGTTTTAAAA AGAATAATTT AATCGATGAT
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TTAAAA
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ctt gcc aga act ctg aag aaa ctt gga ctg gac ggc tat aag gga gtc agc ctg gca aac tgg ttg tgt ttg acc
aaa tgg gaa agc agt tat aac aca aaa gct aca aac tac aat cct agc agt gaa agc act gat tat ggg ata ttt
cag atc aac agc aaa tgg tgg tgt aat gat ggc aaa acc cct aat gca gtt gac ggc tgt cat gta tcc tgc agc
gaa tta atg gaa aat gac atc gct aaa gct gta gcg tgt gca aag cat att gtc agt gag caa ggc att aca gcc
tgg gtg gca tgg aaa agt cat tgt cga gac cat gac gtc agc agt tac gtt gag ggt tgc acc ctg taa
CTCGAGGGGT AGTCAAGATG CATAATAAAT AACGGATTGT GTCCGTAATC ACACGTGGTG CGTACGATAA CGCATAGTGT TTTTCCCTCC
ACTTAAATCG AAGGGTTGTG TCTTGGATCG CGCGGGTCAA ATGTATATGG TTCATATACA TCCGCAGGCA CGTAATAAAG CGAGGGGTTC
GGGTCGAGGT CGGCTGTGAA ACTCGAAAAG GTTCCGGAAA ACAAAAAAGA GAGTGGTAGG TAATAGTGTT AATAATAAGA AAATAAATAA
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TACCAAAATC AGCAGTGGTT GTTCGTCCAC TTAAATATAA CGATTGTCAT ATCTGGATCC AACAGTTAAA CCATGTGATG GTGTATACTG
TGGTATGGCG TAAAACAACG GAAAAGTCGC TGAAGACTTA AAATTCAGGG TGGCTGATAC CAAAATCAGC AGTGGTTGTT CGTCCACTTA
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GTGTAAAGCC TGGGGTGCCT AATGAGTGAG CTAACTCACA TTAATTGCGT TGCGCTCACT GCCCGCTTTC CAGTCGGGAA ACCTGTCGTG
CCAGCTGCAT TAATGAATCG GCCAACGCGC GGGGAGAGGC GGTTTGCGTA TTGGGCGCTC TTCCGCTTCC TCGCTCACTG ACTCGCTGCG

FIGURE 2 (sheet 4 of 4)

CTCGGTCGTT CGGCTGCGGC GAGCGGTATC AGCTCACTCA AAGGCGGTAA TACGGTTATC CACAGAATCA GGGGATAACG CAGGAAAGAA
CATGTGAGCA AAAGGCCAGC AAAAGGCCAG GAACCGTAAA AAGGCCGCGT TGCTGGCGTT TTTCCATAGG CTCCGCCCCC CTGACGAGCA
TCACAAAAAT CGACGCTCAA GTCAGAGGTG GCGAAACCCG ACAGGACTAT AAAGATACCA GGCGTTTCCC CCTGGAAGCT CCCTCGTGCG
CTCTCCTGTT CCGACCCTGC CGCTTACCGG ATACCTGTCC GCCTTTCTCC CTTCGGGAAG CGTGGCGCTT TCTCATAGCT CACGCTGTAG
GTATCTCAGT TCGGTGTAGG TCGTTCGCTC CAAGCTGGGC TGTGTGCACG AACCCCCCGT TCAGCCCGAC CGCTGCGCCT TATCCGGTAA
CTATCGTCTT GAGTCCAACC CGGTAAGACA CGACTTATCG CCACTGGCAG CAGCCACTGG TAACAGGATT AGCAGAGCGA GGTATGTAGG
CGGTGCTACA GAGTTCTTGA AGTGGTGGCC TAACTACGGC TACACTAGAA GGACAGTATT TGGTATCTGC GCTCTGCTGA AGCCAGTTAC
CTTCGGAAAA AGAGTTGGTA GCTCTTGATC CGGCAAACAA ACCACCGCTG GTAGCGGTGG TTTTTTTGTT TGCAAGCAGC AGATTACGCG
CAGAAAAAAA GGATCTCAAG AAGATCCTTT GATCTTTTCT ACGGGGTCTG ACGCTCAGTG GAACGAAAAC TCACGTTAAG GGATTTTGGT
CATGAGATTA TCAAAAAGGA TCTTCACCTA GATCCTTTTA AATTAAAAAT GAAGTTTTAA ATCAATCTAA AGTATATATG AGTAAACTTG
GTCTGACAGT TACCAATGCT TAATCAGTGA GGCACCTATC TCAGCGATCT GTCTATTTCG TTCATCCATA GTTGCCTGAC TCCCCGTCGT
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GGCTTCATTC AGCTCCGGTT CCCAACGATC AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC
GATCGTTGTC AGAAGTAAGT TGGCCGCAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC CATCCGTAAG
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GGATAATACC GCGCCACATA GCAGAACTTT AAAAGTGCTC ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCGCT
GTTGAGATCC AGTTCGATGT AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTCACCAGC GTTTCTGGGT GAGCAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT TTTCAATATT ATTGAAGCAT
TTATCAGGGT TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA AAAATAAACA AATAGGGGTT CCGCGCACAT TTCCCCGAAA
AGTGCCACCT GACGTCTAAG AAACCATTAT TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGTC TCGCGCGTTT
CGGTGATGAC GGTGAAAACC TCTGACACAT GCAGCTCCCG GAGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA GACAAGCCCG
TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA GCAGATTGTA CTGAGAGTGC ACCATATGCG
GTGTGAaata ccgcacagat gcGTAAGGAG AAAATACCGC ATCAGGCGCA TTCGCCATTC AGGCTGCGCA ACTGTTGGGA AGGGCGATCG
GTGCGGGCCT CTTCGCTATT ACGCCAGCTG GCGAAAGGGG GATGTGCTGC AAGGCGATTA AGTTGGGTAA CGCCAGGGTT TTCCCAGTCA
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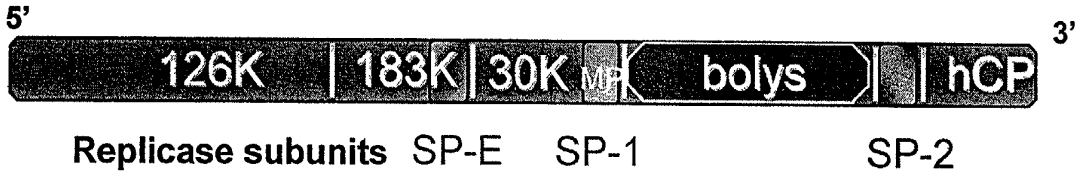
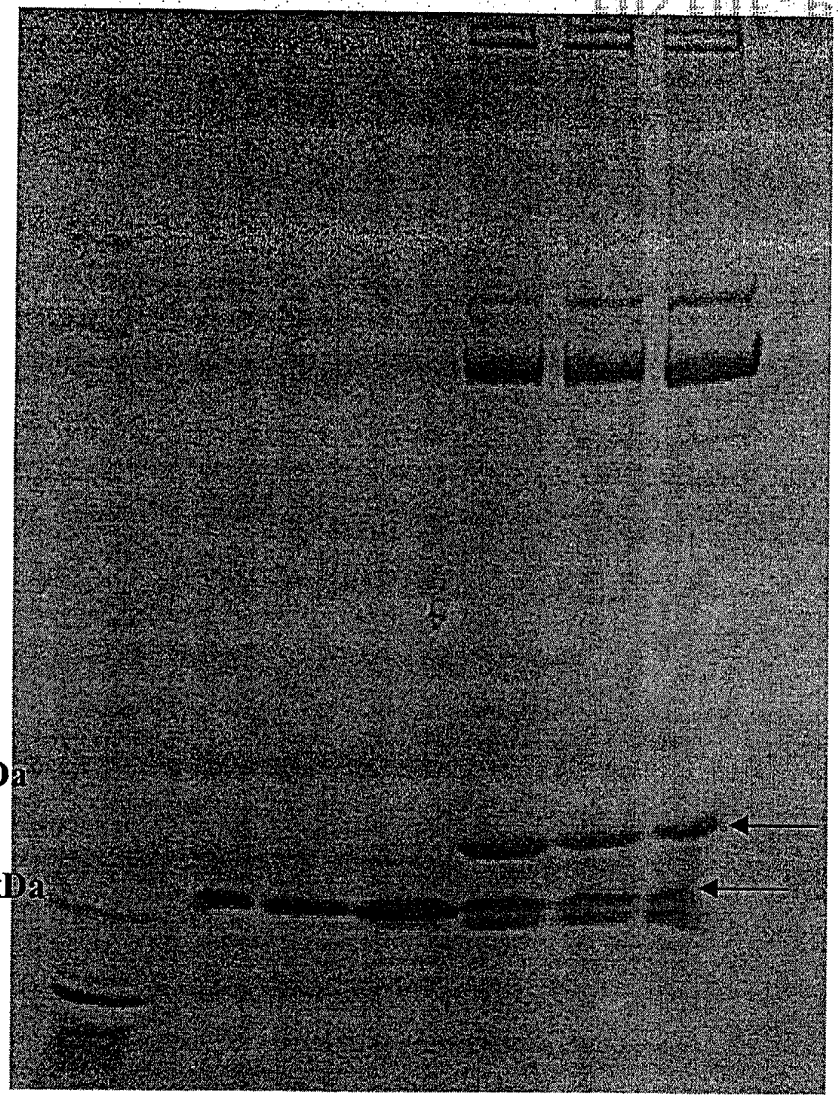


Fig. 3.



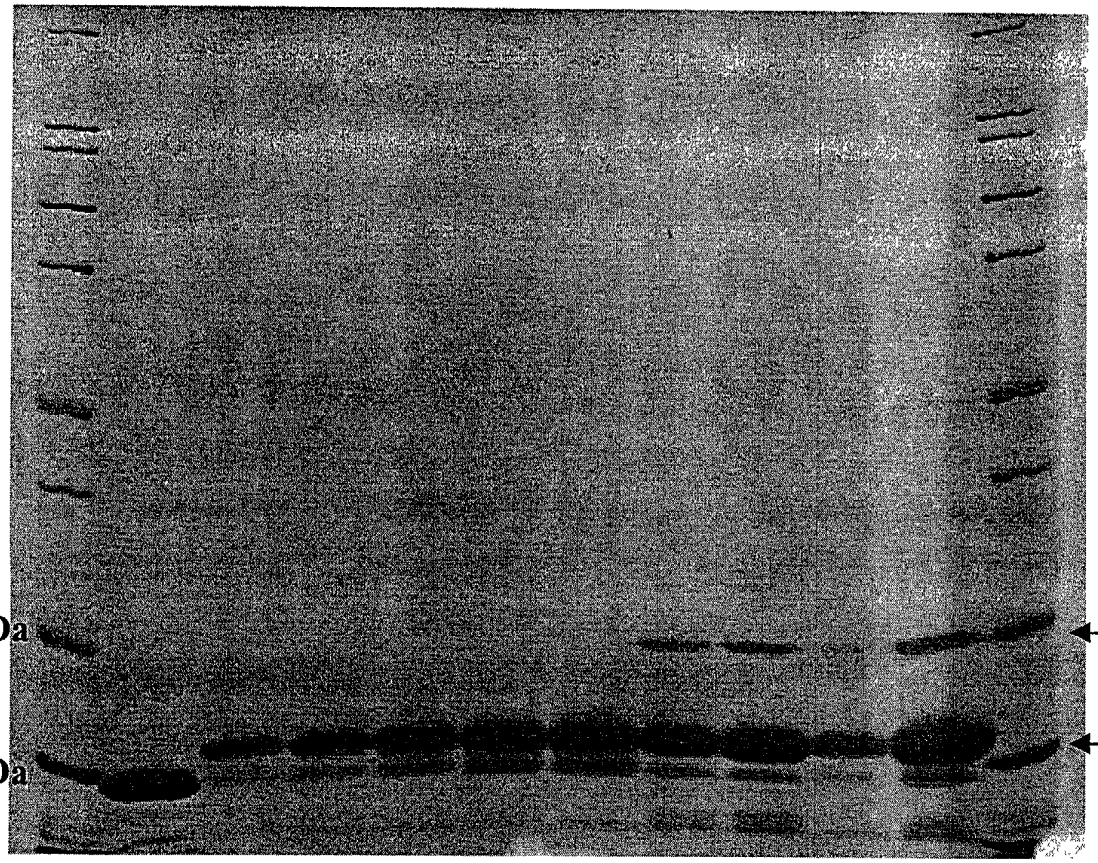
10-20% Tris-Glycine SDS PAGE gel

1. Marker
2. (+) BoLys - 1μg
3. (+) BoLys - 2 μ g
4. (+) BoLys - 5 μ g
5. Nb-1 GJ - 2 μ l
6. Nb-2 GJ - 2 μ l
7. Nb-3 GJ - 2 μ l

TMV coat protein

bolys

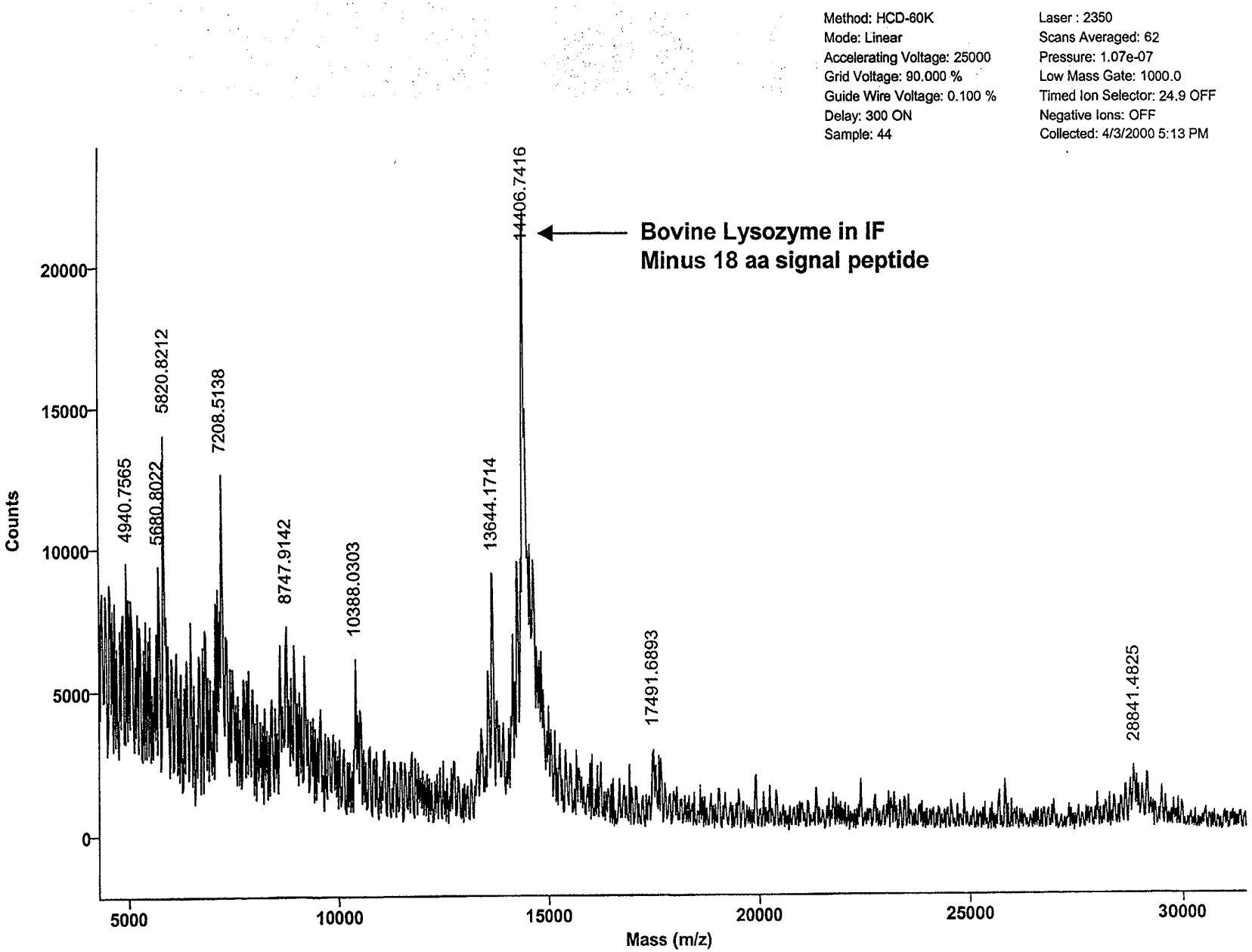
Fig. 4



14% Tris-Glycine SDS-PAGE gel

1. Marker
2. (+) Hen EW lys 5 μg
3. (+) BoLys - 1 μ g
4. (+) Boys - 2 μ g
5. (+) BoLys - 3.5 μ g
6. (+) BoLys - 5 μ g
7. (+) BoLys - 7 μ g
8. 1051500 IF crude - 1 μ l
9. 1051500 IF crude - 5 μ l
10. 1051100 IF crude - 1 μ l
11. 1051100 IF crude - 5 μ l
12. Marker 12

Fig. 5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Mode: Linear
Accelerating Voltage: 25000
Grid Voltage: 90.000 %
Guide Wire Voltage: 0.100 %
Delay: 300 ON
Sample: 44
Laser : 2350
Scans Averaged: 62
Pressure: 1.07e-07
Low Mass Gate: 1000.0
Timed Ion Selector: 24.9 OFF
Negative Ions: OFF
Collected: 4/3/2000 5:13 PM
Bovine Lysozyme in IF
Minus 18 aa signal peptide
14406.7416
5820.8212
7208.5138
4940.7565
5680.8022
8747.9142
10388.0303
13644.1714
17491.6893
28841.4825
Counts
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10000
5000
0
5000
10000
15000
20000
25000
30000
Mass (m/z)

Fig. 6

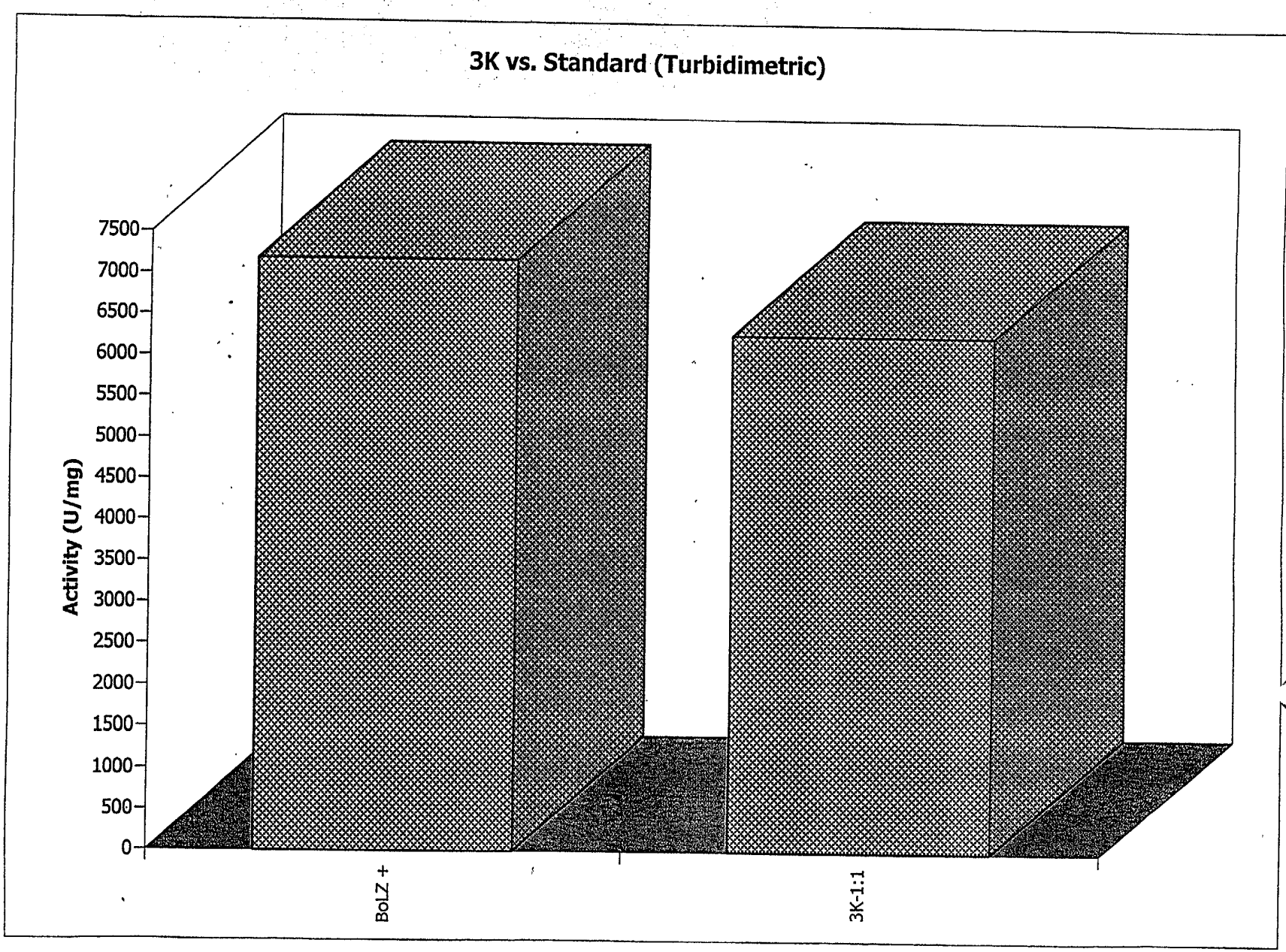
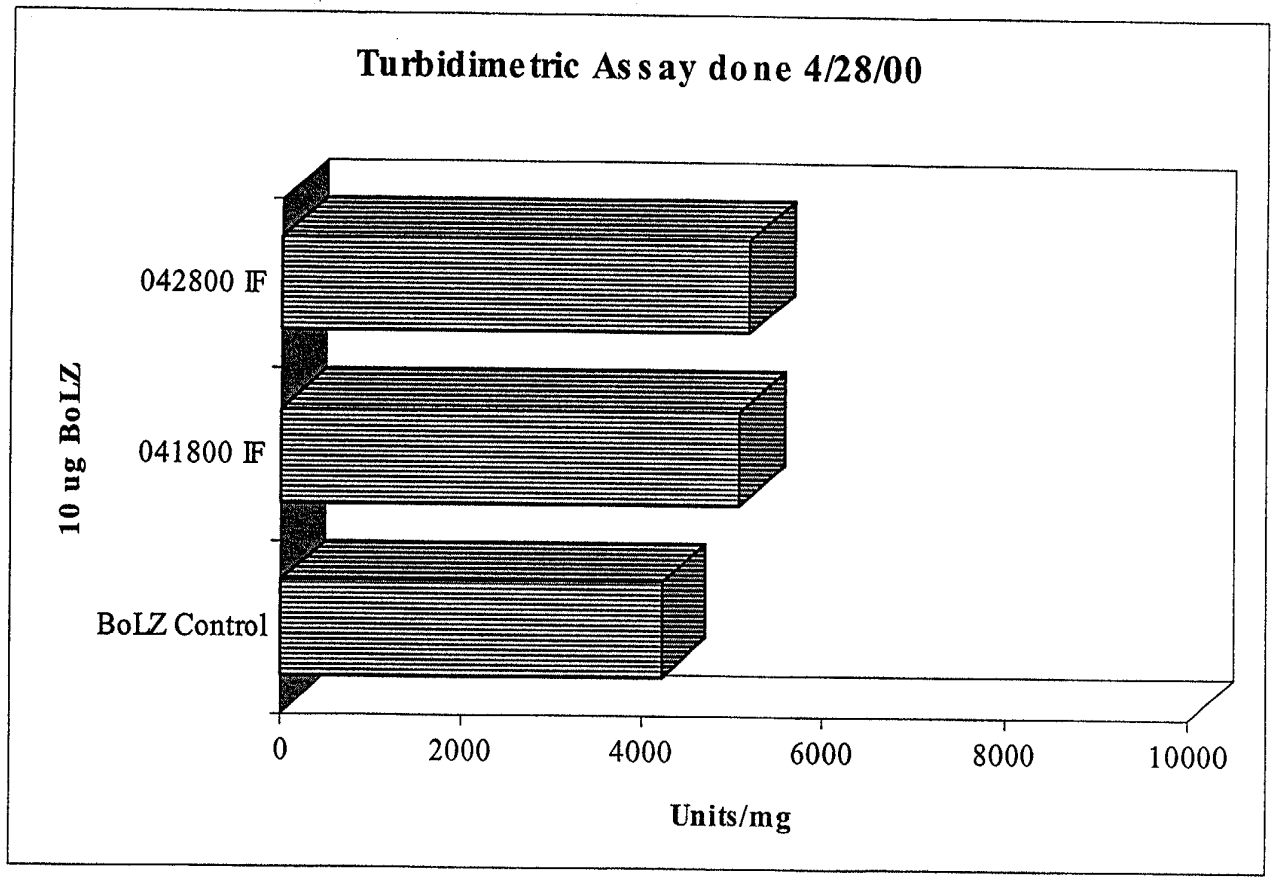

3K vs. Standard (Turbidimetric)
Activity (U/mg)
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
BoLZ +
3K-1:1

Fig. 7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041800 IF
BoLZ Control
10 ug BoLZ
0
2000
4000
6000
8000
10000
Units/mg

Fig. 8

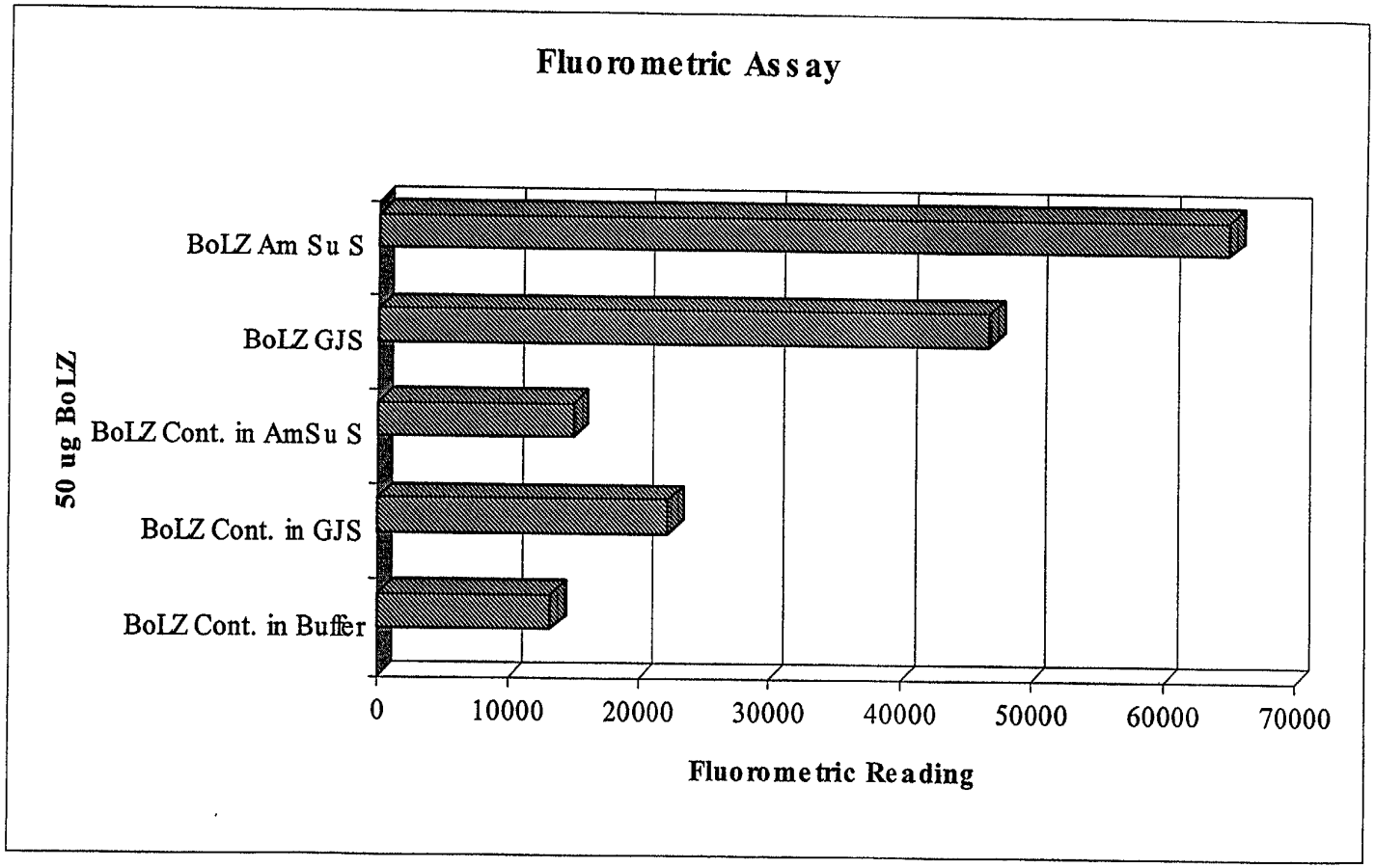

Fig. 9

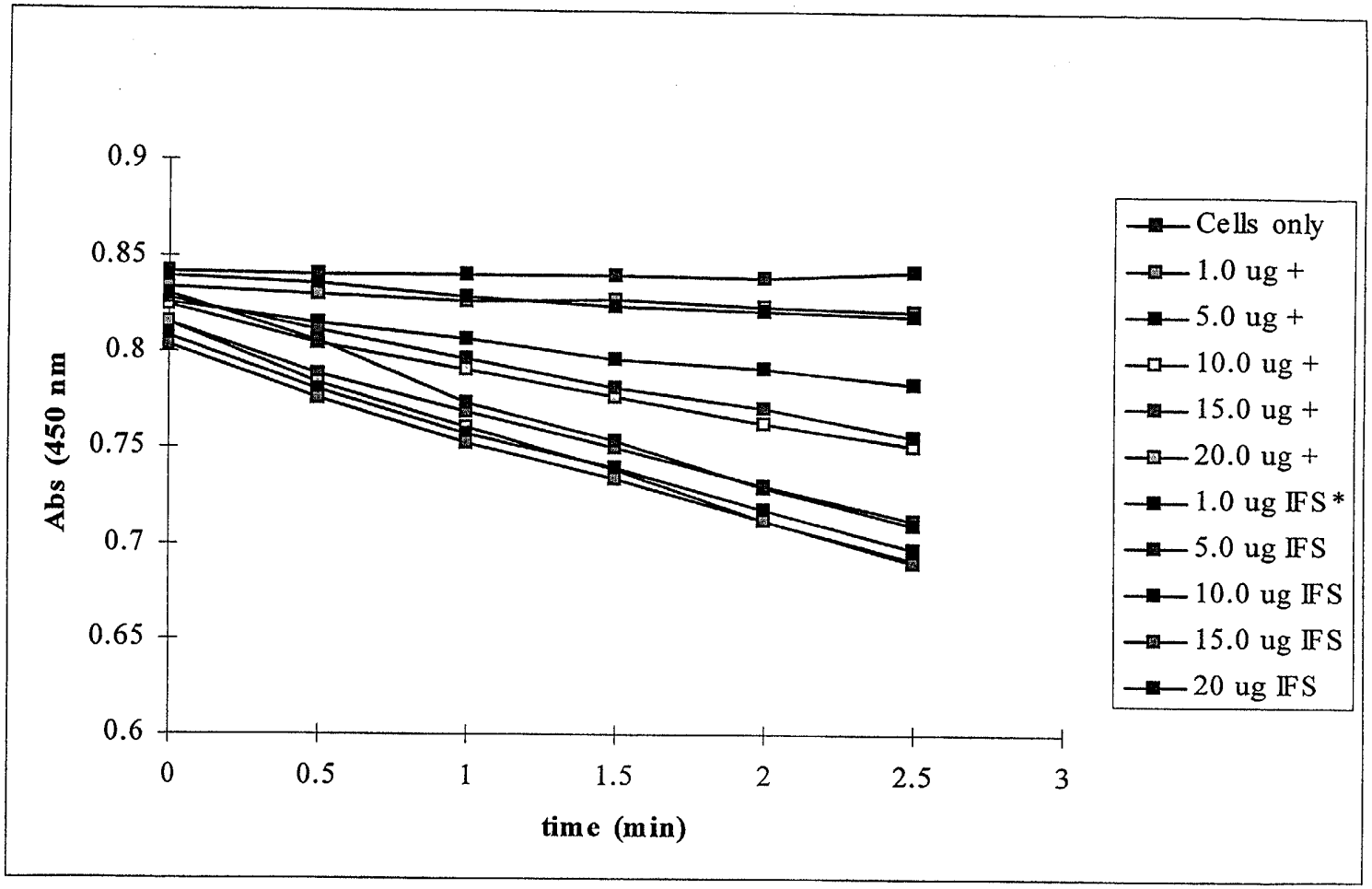
0.9
0.85
0.8
0.75
0.7
0.65
0.6
Abs (450 nm
0
0.5
1
1.5
2
2.5
3
time (min)
Cells only
1.0 ug +
5.0 ug +
10.0 ug +
15.0 ug +
20.0 ug +
1.0 ug IFS*
5.0 ug IFS
10.0 ug IFS
15.0 ug IFS
20 ug IFS

Fig. 10